

## CLAIMS

What is claimed is:

- 1           1.       A method for recording program content of a transmission,  
2 comprising:  
3           receiving program information for a program selected for recording;  
4           generating a title frame for the program; and  
5           recording the title frame prior to recording the program content.
- 1           2.       The method as set forth in claim 1 further comprising a user  
2 selecting a title frame recording option such that if the title frame recording  
3 option is not selected, a title frame is not generated and recorded.
- 1           3.       The method as set forth in claim 1, wherein receiving program  
2 information is selected from a group comprising receiving program title,  
3 receiving program start time, receiving program time length, receiving  
4 program genre, receiving program subcategory, receiving program rating,  
5 receiving names of actors and actresses, and receiving program description.
- 1           4.       The method as set forth in claim 1 wherein generating a title frame  
2 for the program comprises selecting a graphic treatment for the title frame.
- 1           5.       The method as set forth in claim 4 wherein selecting a graphic  
2 treatment further comprising selecting a graphic treatment corresponding to  
3 genre information of the program content.
- 1           6.       The method as set forth in claim 1 further comprising placing the  
2 program information in the title frame.

1           7.     The method as set forth in claim 6 wherein placing the program  
2 information in the title frame comprises:  
3           determining if the user selects to customize information in the title  
4 frame;  
5           placing customized program information in the title frame if the user  
6 selects to customize the title frame; and  
7           placing the received program information in the title frame  
8 corresponding to a default setup if the user does not select to customize the title  
9 frame.

1           8.     The method as set forth in claim 7 wherein the customized  
2 program information comprises a modified program description from the  
3 received program description.

1           9.     The method as set forth in claim 8 further comprising:  
2           placing an image in the title frame; and  
3           assigning marquee graphics to recognized keywords in the title frame.

1           10.    The method as set forth in claim 9, wherein the image is selected  
2 from a group comprising an image of a movie poster, an image of an actor or  
3 actress in the program, and a program logo.

1           11.    The method as set forth in claim 9, wherein the recognized  
2 keywords are selected from the group comprising the names of actors and  
3 actresses, the program rating, and the program time length.

1           12.    The method as set forth in claim 1 further comprising using a  
2   default title frame when no content information is available for the program.

1           13.    A method for automatically generating a title frame when a user  
2   records program content available through a transmission, the method  
3   comprising:

4           receiving program information for a program to be broadcasted;  
5           extracting content data from the program information;  
6           selecting a graphic treatment for a title frame based on the content data;  
7           generating the title frame using the program information and the  
8   selected graphic treatment; and  
9           recording the title frame.

1           14.    The method as set forth in claim 13 further comprising a user  
2   selecting an automatic title frame recording option, the automatic title frame  
3   recording option indicating a title frame relating to the program content is to be  
4   generated automatically.

1           15.    The method as set forth in claim 13, wherein the content data is a  
2   categorization of the program content.

1           16.    The method as set forth in claim 13, wherein selecting a graphic  
2   treatment comprises selecting a graphic from a plurality of graphics, each  
3   graphic corresponding to the respective content data.

1           17.    The method as set forth in claim 13, wherein generating the title  
2   frame using the program information comprises placing the program  
3   information and the selected graphic treatment in the title frame.

1           18.    The method as set forth in claim 17 wherein placing program  
2 information comprises superimposing the selected program information over  
3 the selected graphic treatment.

1           ✓ 19.    An apparatus comprising:  
2           a memory;  
3           an input device configured to receive transmissions of program content  
4 and program information; and  
5           a processor coupled to the memory and the input device, the processor  
6 configured to control generation of a title frame for a program to be recorded  
7 and recording of the title frame prior to recording of the program content.

1           20.    The apparatus as set forth in claim 19 wherein the memory is  
2 configured to store graphic treatments to be placed in the title frame.

1           21.    The apparatus as set forth in claim 19 wherein the processor is  
2 further configured to select a graphic treatment to use in the title frame.

1           22.    The apparatus as set forth in claim 21 wherein the graphic  
2 treatment is selected based upon content data, the content data being transmitted  
3 with the program information.

1           23.    The apparatus as set forth in claim 21 wherein the program  
2 information is used to generate description in the title frame.

1           24.    An apparatus comprising:  
2           a memory;  
3           an input, the input configured to receive transmissions of program

4 information, and program content; and  
5 a processor coupled to the memory and the input, the processor  
6 configured to;  
7 select a graphic treatment for a title frame based upon the content  
8 data,  
9 extract information from the program information to be used in  
10 the title frame,  
11 generate the title frame using the selected graphic treatment and  
12 the extracted information, and  
13 control the recording of the title frame prior to recording of the  
14 program content.

1 25. An apparatus for generating title frame recording comprising:  
2 means for receiving program information for a program to be recorded;  
3 means for extracting content data from the program information;  
4 means for selecting graphic treatment corresponding to the content data;  
5 means for generating a title frame using the program information  
6 and the selected graphic treatment; and  
7 means for controlling the recording of the title frame before recording  
8 program content.

1 26. The apparatus as set forth in claim 25 further comprising input  
2 means for accepting a user's command to activate a title frame recording  
3 option.

1 27. The apparatus as set forth in claim 25 further comprising means  
2 for connecting to an external input device, the external input device allowing a  
3 user to customize the title frame.

1 28. An apparatus comprising:  
2 means for receiving a trasmitted program including program  
3 information and program content;  
4 means for generating a title frame for the trasmitted program using the  
5 program information; and  
6 means for recording the generated title frame and the program content.

1 29. The apparatus as set forth in claim 28 further include means for  
2 selecting a graphic treatment for the title frame, the graphic treatment being  
3 selected based on content data of the transmitted program.

1 30. The apparatus as set forth in claim 28 wherein means for  
2 generating a title frame comprises means for incorporating the selected graphic  
3 treatment into the title frame and means for extracting information from the  
4 program information and using the extracted information to generate  
5 information in the title frame

1 31. A computer readable medium comprising instructions which  
2 when executed by a processing system, perform steps to record a program  
3 content comprising:  
4 receiving program information and content data for a program selected  
5 for recording;  
6 generating a title frame for the program; and  
7 recording the title frame prior to recording the program content.

1 32. The computer readable medium as set forth in claim 31 further  
2 comprising a user selecting a title frame recording option such that if the title

3 frame recording option is not selected, a title frame is not generated and  
4 recorded.

1 33. The computer readable medium as set forth in claim 31 further  
2 comprising:

3 determining if the user selects to customize information in the title  
4 frame;

5 placing customized program information in the title frame if the user  
6 selects to customize the title frame; and

7 placing the received program information in the title frame  
8 corresponding to a default setup if the user does not select to customize the title  
9 frame.

1 34. The computer readable medium as set forth in claim 33 wherein  
2 generating a title frame for the program comprises selecting a graphic treatment  
3 for the title frame and placing the program information in the title frame.

1 35. A computer readable medium comprising instructions, which  
2 when executed by a processing system, perform steps to record a program  
3 content comprising:

4 receiving program information and content data for a program selected  
5 for recording;

6 selecting a graphic treatment for a title frame for the program, the  
7 graphic treatment being selected based upon the content data;

8 generating a title frame for the program using the selected graphic  
9 treatment and the program information; and

10 recording the title frame prior to recording the program content.

